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APPARATUS AND METHODS FOR CONTROLLED SUBSTANCE DELIVERY FROM IMPLANTED PROSTHESES

ABSTRACT OF THE DISCLOSURE

The present invention provides improved devices and methods for inhibiting restenosis and hyperplasia after intravascular intervention. In particular, the present invention provides luminal prostheses which allow for programmed and controlled substance delivery with increased efficacy to selected locations within a patient's vasculature to inhibit restenosis. The luminal delivery prosthesis comprises a scaffold which is implantable within a body lumen and means on the scaffold for releasing a substance from the scaffold. The substance is released over a predetermined time pattern comprising an initial phase wherein the substance delivery rate is below a threshold level and a subsequent phase wherein the substance delivery rate is above a threshold level.

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